L Number	Hits	Search Text	DB	Time stamp
1	9	(produc\$4 creat\$4 generat\$4 provid\$4) with (stylus pen) same right with	USPAT;	2004/08/18 12:22
		click with mouse near6 (event button)	US-PGPUB;	
			EPO; JPO;	
,			DERWENT;	
	_		IBM_TDB	
2	8	(produc\$4 creat\$4 generat\$4 provid\$4) with (stylus pen) with mouse near6 (USPAT;	2004/08/18 I2:24
		event button) and right near5 click\$4	US-PGPUB;	
			EPO; JPO;	
		,	DERWENT;	
	_		IBM_TDB	
4	I	((produc\$4 creat\$4 generat\$4 provid\$4) same (stylus pen) with mouse near6	USPAT;	2004/08/18 12:25
		(event button) and (stylus pen) same right near5 click\$4) and context with	US-PGPUB;	
		help	EPO; JPO;	
			DERWENT;	
_			IBM_TDB	
5	4	((produc\$4 creat\$4 generat\$4 provid\$4) same (stylus pcn) with mouse near6	USPAT;	2004/08/18 12:26
		(event button) and (stylus pen) same right near5 click\$4) and context	US-PGPUB;	,
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
3	16	(produc\$4 creat\$4 generat\$4 provid\$4) same (stylus pen) with mouse near6 (USPAT;	2004/08/18 12:26
		event button) and (stylus pen) same right near5 click\$4	US-PGPUB;	
			EPO; JPO;	;
			DERWENT;	
	204261		IBM_TDB	
6	284361	context withsensitive help and right near5 click\$4 with (stylus pen)	USPAT;	2004/08/18 12:27
		· ·	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
~			IBM_TDB	
7	. 1	context with sensitive near5 help and right near5 click\$4 with (stylus pen)	USPAT;	2004/08/18 12:27
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
8	1	contact with halm and right near alial \$4 with (atulus non)	IBM_TDB	2004/00/10 12:27
0	1	context with help and right near5 click\$4 with (stylus pen)	USPAT;	2004/08/18 12:27
		·	US-PGPUB;	
		,	EPO; JPO;	
			DERWENT;	
9	1	contex\$5 with help and right near5 click\$4 with (stylus pen)	IBM_TDB USPAT;	2004/08/18 12:27
^	1	contexas with help and right hears enexas with (stylus pen)	US-PGPUB;	2004/06/16 12.27
	,		EPO; JPO;	
			DERWENT;	
			IBM TDB	
10	5	contex\$5 with right near5 click\$4 with (stylus pen)	USPAT;	2004/08/18 12:29
10		contexas with right nears enexast with (stylus pen)	US-PGPUB;	2004/06/16 12.29
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
1 I	8	select\$4 with (list item command help menu contex\$5) with right near5	USPAT;	2004/08/18 12:30
		click\$4 with (stylus pen)	US-PGPUB;	2007/00/10 12.30
		The state of the point	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
12	8	select\$4 with (list item command help menu contex\$5) with right near5	USPAT;	2004/08/18 12:35
~~		(click\$4 tap\$5) with (stylus pen)	US-PGPUB;	2007/00/10 12:33
		(onerw : tapus) with (orgino pon)	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
		1	ואומו ואומו	

13	7	(select\$4 with (list item command help menu contex\$5) with right near5	USPAT;	2004/08/18 13:24
		(click\$4 tap\$5) with (stylus pen)) and rout\$5	US-PGPUB; EPO; JPO; DERWENT;	
14	1	(select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and re near routing	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 12:39
15	1	((select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and re near routing) and (transfer\$4 transmit\$6 communicat\$4)	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 12:39
16	1	(select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (first second) near4 application	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:25
17	1	(select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (first second) near4 application	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:27
18	1	(select\$4 with (list item command help mcnu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (first second) near4 (operating application)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:27
19	5	(select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:29
20	1	"20030107607" and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:31
21	0	"20030107607" and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application) same execut\$5	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:31
22.	1	"20030107607" and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application) and execut\$5	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:44
23	1	(stylus pen) near5 helper near4 module	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 13:44
24	1	(stylus pen) near5 helper and module	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 13:44
25	2	(stylus pen) with helper and module	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 13:50
		,	DERWENT; IBM_TDB	

26	2	"20010019336"	USPAT;	2004/08/18 14:08
			US-PGPUB; EPO; JPO;	
			DERWENT;	
27	02		IBM_TDB	0004/00/10 14 10
27	. 83	(style pen) with input and predetermined near3 amount near3 time same select\$4	USPAT; US-PGPUB;	2004/08/18 14:10
		SCICCLOT	EPO; JPO;	
			DERWENT;	
10	,	(stale man) with insure and anterior of with within with an large of the way	IBM_TDB	2004/00/10 14 11
28	5	(style pen) with input and select\$4 with within with predetermined near3 amount near3 time	USPAT; US-PGPUB;	2004/08/18 14:11
			EPO; JPO;	
			DERWENT;	
29	5	(style pen) with input and select\$4 with within with predetermined near3	IBM_TDB	2004/08/18 14:11
29	, ,	amount near3 (time period)	USPAT; US-PGPUB;	2004/08/18 14:11
		([EPO; JPO;	
			DERWENT;	
30	84	(style pen) with input and select\$4 with within with predetermined near3 (IBM_TDB USPAT;	2004/08/18 14:12
50		amount time period)	US-PGPUB;	2004/06/16 14.12
		,	EPO; JPO;	
			DERWENT;	
32	12	((style pen) with input and select\$4 with within with predetermined near3 (IBM_TDB USPAT;	2004/08/18 14:14
32	12	amount time period)) and (respons\$4 receiv\$4) with input with (pen stylus)	US-PGPUB;	2004/00/18 14:14
		and determin\$4 same select\$4	EPO; JPO;	
			DERWENT;	
31	48	((style pen) with input and select\$4 with within with predetermined near3 (IBM_TDB USPAT;	2004/08/18 14:18
		amount time period)) and (respons\$4 receiv\$4) with input and determin\$4	US-PGPUB;	2001/00/10 14:10
		same select\$4	EPO; JPO;	
			DERWENT; IBM_TDB	:
33	4	(((style pen) with input and select\$4 with within with predetermined near3 (USPAT;	2004/08/18 14:32
		amount time period)) and (respons\$4 receiv\$4) with input and determin\$4	US-PGPUB;	
		same select\$4) and (hid\$4 dismis\$4 remov\$4) with menu	EPO; JPO;	
			DERWENT; IBM_TDB	
34	2	5611050.pn.	USPAT;	2004/08/18 14:50
			US-PGPUB;	
		•	EPO; JPO; DERWENT;	
			IBM_TDB	•
35	0	5611050.pn. and local\$4 with (id identif\$4)	USPAT;	2004/08/18 14:34
			US-PGPUB;	
			EPO; JPO; DERWENT;	
	×		IBM_TDB	
36	0	5611050 pn. and local\$4 same (id identif\$4)	USPĀT;	2004/08/18 14:34
			US-PGPUB;	
			EPO; JPO; DERWENT;	
_			IBM_TDB	
37	2	561 I050.pn. and (global local\$4 user) and (id identif\$4)	USPAT;	2004/08/18 14:34
	,		US-PGPUB; EPO; JPO;	
		·	DERWENT;	
20		5641050 1/11 11 104) (111 107)	IBM_TDB	
38	2	5611050.pn. and (global local\$4 user) same (id identif\$4)	USPAT; US-PGPUB;	2004/08/18 14:36
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	

39	861	(pda wearable) and (translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)	USPAT; US-PGPUB;	2004/08/18 14:38
			EPO; JPO; DERWENT; IBM_TDB	
40	861	((pda wearable) and (translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott in.	USPAT; US-PGPUB; EPO; JPO;	2004/08/18 14:39
	-		DERWENT;	
41	443	(((pda wearable) and (translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.) and indicat\$4 with (attribute value propert\$4 parameters character\$6)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 14:41
42	2	((((pda wearable) and (translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.) and indicat\$4 with (attribute value propert\$4 parameters character\$6)) and (translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DER WENT;	2004/08/18 14:42
43	1	character\$6) same local ((((pda wearable) and (translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.) and indicat\$4 with (attribute value propert\$4 parameters character\$6)) and (translat\$4	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 14:43
44	104	mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) and local with (id identifier) (translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) and local with (id identifier)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 14:43
45	4	(translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same local with (id identifier)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 14:46
46	208	(translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same (id identifier)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 14:47
47	8	((translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same (id identifier)) and context with attribut\$4	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/18 14:47
48	. 1	5611050.pn. and (mapping translat\$4)	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 15:04
49	12	generat\$4 with right near5 (button click) same (pen stylus)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 15:43
50	3	(generat\$4 with right near5 (button click) same (pen stylus)) and select\$4 same menu	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 15:42
51	2	nguyen.in. and generat\$4 with right near5 (button click) same (pen stylus)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/18 15:44
<u>.</u>			DERWENT; IBM_TDB	

	-r	T		
52	2	nguyen.in. and generat\$4 with right near5 (button click) and (pen stylus)	USPAT;	2004/08/18 15:44
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			1BM_TDB	
53	126	generat\$4 and right near5 (button click) with (pen stylus)	USPAT;	2004/08/18 15:45
			US-PGPUB;	
			EPO; JPO;	
		,	DERWENT;	
			IBM_TDB	
54	8	generat\$4 same right near5 (button click) with (pen stylus)	USPAT;	2004/08/18 15:46
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
55	0	(generat\$4 and right near5 (button click) with (pen stylus)) and select\$4	USPAT;	2004/08/18 15:47
		with menu and pedetermin\$7 with (time period)	US-PGPUB;	
	· ·		EPO; JPO;	
		,	DERWENT;	
			IBM_TDB	
56	13	(generat\$4 and right near5 (button click) with (pen stylus)) and select\$4	USPAT;	2004/08/18 16:04
		with menu and predetermin\$7 with (time period)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
		·	1BM_TDB	
57	0	right near2 click same (simulat\$4 assimulat\$4) with (stylus pen) and	USPAT;	2004/08/18 16:06
		select\$4 with menu and predetermin\$7 with (time period)	US-PGPUB;	
		•	EPO; JPO;	
			DERWENT;	
	- 1		IBM_TDB	
58	2	right near2 click same (simulat\$4 assimulat\$4) with (stylus pen)	USPĀT;	2004/08/18 16:06
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			1BM TDB	



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Interaction techniques for ambiguity resolution in recognition-based interfaces Jennifer Mankoff, Scott E. Hudson, Gregory D. Abowd

November 2000 Proceedings of the 13th annual ACM symposium on User interface software and technology

Full text available: 📆 pdf(152.19 KB) Additional Information: full citation, references, citings, index terms

Characterizing tool use in an interactive drawing environment

Robert St. Amant, Thomas E. Horton

June 2002 Proceedings of the 2nd international symposium on Smart graphics

Full text available: amant.pdf(248.45 Additional Information: full citation, abstract, references, citings, index KB)

The metaphor of tool use for describing the interaction between a human and a computer is pervasive in user interface design. The basic concept of tool use, however, is difficult to define precisely, for HCI purposes or in general. In this paper we argue that a close examination of physical tool use can improve the design of interactive software. We describe a drawing application, HabilisDraw, that incorporates some of the properties we associate with physical tools but are not commonly found in ...

Keywords: drawing, interface design, metaphors, tool use

³ Flatland: new dimensions in office whiteboards

Elizabeth D. Mynatt, Takeo Igarashi, W. Keith Edwards, Anthony LaMarca

May 1999 Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit

Full text available: pdf(1.11 MB)

Additional Information: full citation, references, citings, index terms

Keywords: Flatland, light-weight interaction, pen-based computing, ubiquitous computing, whiteboards

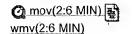
Stylus input and editing without prior selection of mode

Eric Saund, Edward Lank

November 2003 Proceedings of the 16th annual ACM symposium on User interface software and technology

Full text available: pdf(423.04 KB)

Additional Information:



full citation, abstract, references, index terms

This paper offers a solution to the *mode* problem in computer sketch/notetaking programs. Conventionally, the user must specify the intended "draw" or "command" mode prior to performing a stroke. This necessity has proven to be a barrier to the usability of pen/stylus systems. We offer a novel *Inferred-Mode* interaction protocol that avoids the mode hassles of conventional sketch systems. The system infers the user's intent, if possible, from the properties of the pen trajectory and ...

Keywords: command, draw, inferred-Mode protocol, inkscribe, mode, pen, sketch, stylus

Interaction and modeling techniques for desktop two-handed input Ken Hinckley, Mary Czerwinski, Mike Sinclair November 1998 Proceedings of the 11th annual ACM symposium on User interface software and technology



Keywords: TouchMouse, input devices, map navigation, tablests, three-state model, touchpads, two-handed input

The efficiency of multimodal interaction for a map-based task Philip Cohen, David McGee, Josh Clow April 2000 Proceedings of the sixth conference on Applied natural language processing

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

This paper compares the efficiency of using a standard direct-manipulation graphical user interface (GUI) with that of using the QuickSet pen/voice multimodal interface for supporting a military task. In this task, a user places military units and control measures (e.g., various types of lines, obstacles, objectives) on a map. Four military personnel designed and entered their own simulation scenarios via both interfaces. Analyses revealed that the multimodal interface led to an average 3.5-fold ...

Designing better visual interfaces: Smooth Morphing of Handwritten Text
 Conrad Pomm, Sven Werlen
 May 2004 Proceedings of the working conference on Advanced visual interfaces

Full text available: pdf(341.09 KB) Additional Information: full citation, abstract, references, index terms

There are several approaches for pen-based systems to improve legibility of handwritten text, e.g. smoothing the strokes composing the characters and words. A very challenging solution is the smooth morphing approach: handwritten strokes are transformed gradually into perfectly legible characters provided by a previously executed handwriting recognition process. In this paper we present our approach to a smooth real-time metamorphosis of handwritten characters into clean typography. Our main con ...

Keywords: Tablet PC, animated interfaces, online handwriting recognition, stroke morphing

8 Liveboard: a large interactive display supporting group meetings, presentations, and remote collaboration
Scott Elrod, Richard Bruce, Rich Gold, David Goldberg, Frank Halasz, William Janssen, David Lee, Kim McCall, Elin Pedersen, Ken Pier, John Tang, Brent Welch

June 1992 Proceedings of the SIGCHI conference on Human factors in computing systems



Full text available: pdf(1.17 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes the Liveboard, a large interactive display system. With nearly one million pixels and an accurate, multi-state, cordless pen, the Liveboard provides a basis for research on user interfaces for group meetings, presentations and remote collaboration. We describe the underlying hardware and software of the Liveboard, along with several software applications that have been developed. In describing the system, we point out the design rationale that was used to make various c ...

Keywords: collaboration, cordless stylus, gestural interface, group work, interactive display, large-area display

9 User tests and multimodal gesture: Capturing user tests in a multimodal, multidevice informal prototyping tool

Anoop K. Sinha, James A. Landay

November 2003 Proceedings of the 5th international conference on Multimodal interfaces

Full text available: pdf(413.56 KB) Additional Information: full citation, abstract, references, index terms

Interaction designers are increasingly faced with the challenge of creating interfaces that incorporate multiple input modalities, such as pen and speech, and span multiple devices. Few early stage prototyping tools allow non-programmers to prototype these interfaces. Here we describe CrossWeaver, a tool for informally prototyping multimodal, multidevice user interfaces. This tool embodies the informal prototyping paradigm, leaving design representations in an informal, sketched form, and create ...

Keywords: informal prototyping, mobile interface design, multidevice, multimodal, pen and speech input, sketching

10 Sketching in 3D

Robert Zeleznik

November 1998 ACM SIGGRAPH Computer Graphics, Volume 32 Issue 4

Full text available: pdf(488.44 KB) Additional Information: full citation, abstract, index terms

Of the numerous changes to the implements for creating 2D images and 3D models, one of the most radical has been the recent adoption of WIMP interfaces. Ironically, there is good reason to believe that WIMP interaction for 3D modeling is actually inferior to the real-world interfaces (pencils, large sheets of paper, clay, paint palettes) that it supplants. In fact, WIMP interaction's principal benefit is its straightforward integration with computer 3D model representations which have many advan ...

11 Systems Issues: Rajicon:: remote PC GUI operations via constricted mobile interfaces
Norman Makoto Su, Yutaka Sakane, Masahiko Tsukamoto, Shojiro Nishio
September 2002 Proceedings of the 8th annual international conference on Mobile

computing and networking

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, index terms

As of now, it is not uncommon for one to use multiple computers in separate places such as at home, office or school. A number of applications currently exist to allow a user to easily access and control these computers remotely via a notebook computer or web page. Unfortunately, even with such solutions, it is rather inconvenient, for example, to try accessing your computer while walking downtown or riding a train. On the other hand, considering that cellular phones have been accepted as multi- ...

Keywords: GUI, cellular phone, mobile device, remote access

Late breaking result papers: Comparing the immediate usability of graffiti 2 and virtual http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=25800175&CFTOKFN=89655563

<u>keyboard</u>

Thomas Költringer, Thomas Grechenig

April 2004 Extended abstracts of the 2004 conference on Human factors and computing systems

Full text available: pdf(289.96 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the results of an empirical study on the input system of the most frequent PDA operating system, PalmOS from Palm Inc. In an experiment with novice users we compared the stroke based alphabet Graffiti 2 with the Virtual Keyboard and the predictive add-on WordComplete from CIC Software for Graffiti 2. We found that although text input with Graffiti 2 was significantly slower and generated a higher error rate (9 wpm; 19%) than text input with the Virtual Keyboard (13 wpm; 4%), ...

Keywords: WordComplete, graffiti 2, mobile computing, pen-based computing, stylus input, virtual keyboard

13 Input Devices: Movement model, hits distribution and learning in virtual keyboarding Shumin Zhai, Alison Sue, Johnny Accot

April 2002 Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves

Full text available: pdf(930.16 KB)

Additional Information: full citation, abstract, references, citings, index terms

In a ten-session experiment, six participants practiced typing with an expanding rehearsal method on an optimized virtual keyboard. Based on a large amount of in-situ performance data, this paper reports the following findings. First, the Fitts-digraph movement efficiency model of virtual keyboards is revised. The format and parameters of Fitts' law used previously in virtual keyboards research were incorrect. Second, performance limit predictions of various layouts are calculated with the new m ...

Keywords: Fitts' law, expanding rehearsal, graphical keyboard, learning, memory, mobile computing, on screen keyboard, skill acquisition, soft keyboard, text entry, text input, virtual keyboard

14 The design and evaluation of a high-performance soft keyboard

I. Scott MacKenzie, Shawn X. Zhang

May 1999 Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit

Full text available: pdf(805.96 KB) Additional Information: full citation, references, citings, index terms

Keywords: Fitts' law, digraph probabilities, linguistic models, mobile systems, pen input, soft keyboards, stylus input

¹⁵ DataTiles: a modular platform for mixed physical and graphical interactions
Jun Rekimoto, Brygg Ullmer, Haruo Oba

March 2001 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(931.24 KB)

Additional Information: full citation, abstract, references, citings, index terms

The DataTiles system integrates the benefits of two major interaction paradigms: graphical and physical user interfaces. Tagged transparent tiles are used as modular construction units. These tiles are augmented by dynamic graphical information when they are placed on a sensor-enhanced flat panel display. They can be used independently or can be combined into more complex configurations, similar to the way language can express complex concepts through a sequence of simple words. In this ...

Keywords: graphical user interfaces, interaction techniques, radio-frequency identification tags, tangible user interfaces, visual language

A social sense of time: Sharing and building digital group histories Chia Shen, Neal B. Lesh, Frederic Vernier, Clifton Forlines, Jeana Frost November 2002 Proceedings of the 2002 ACM conference on Computer supported cooperative work

Full text available: pdf(7.06 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Organizations, families, institutions evolve a shared culture and history. In this work, we describe a system to facilitate conversation and storytelling about this collective past. Users explore digital archives of shared materials such as photographs, video, and text documents on a tabletop interface. Both the software and the interface encourage natural conversation and reflection. This work is an application of our ongoing research on systems for multiple, co-present users to explore digital ...

Keywords: digital story sharing, group history, single-display groupware

17 Tangible user interaction using augmented reality

Hannah Slay, Bruce Thomas, Rudi Vernik

January 2002 Australian Computer Science Communications, Third Australasian conference on User interfaces - Volume 7, Volume 24 Issue 4

Full text available: pdf(1.18 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper describes a novel use of augmented reality for the visualisation of virtual objects as part of the move towards pervasive computing. It uses fiducial markers as switches to "toggle" the displayed properties of the virtual objects. Using collision detection, fiducial markers are also used to track and select nodes within virtual objects. This research uses the ARToolkit Version 2.33 and acts as a component within the DSTO's InVision framework.

Keywords: augmented reality, fiducial markers, pervasive computing

18 Interactive Design: A visual language for sketching large and complex interactive designs

James Lin, Michael Thomsen, James A. Landay

April 2002 Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves

Full text available: 🔁 pdf(743.82 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Informal, sketch-based design tools closely match the work practices of user interface designers. Current tools, however, are limited in the size and complexity of interaction that can be specified. We have created an advanced sketch-based visual language that allows for easy prototyping of large, complex interactive designs. In its current embodiment in the denim web design tool, the visual language allows designers to sketch reusable components for recurring page elements, such as navigation b ...

Keywords: denim, user interface design, visual language, web design

¹⁹ A comparison of reading paper and on-line documents Kenton O'Hara, Abigail Sellen

March 1997 Proceedings of the SIGCHI conference on Human factors in computing systems

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Full text available: pdf(493.66 KB)

pdf(1.12 MB)

full citation, references, citings, index terms

Keywords: Web, design, digital documents, digital libraries, hypertext, paper, reading

20 Joint session with UIST: A system for fast, full-text entry for small electronic devices Saied B. Nesbat



November 2003 Proceedings of the 5th international conference on Multimodal interfaces

A novel text entry system designed based on the ubiquitous 12-button telephone keypad and its adaptation for a soft keypad are presented. This system can be used to enter full text (letters + numbers + special characters) on devices where the number of keys or the keyboard area is limited. Letter-frequency data is used for assigning letters to the positions of a 3x3 matrix on keys, enhancing the entry of the most frequent Letters performed by a double-click. Less frequent letters and characters ...

Keywords: Fitts' law, keypad input, mobile phones, mobile systems, pen-based, soft keyboard, stylus input, text entry

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